

# Schlumberger Well Log Analysis

Basic Well Log Analysis Fundamentals of Well-log Interpretation Well Logging and Formation Evaluation The Geological Interpretation of Well Logs Basic Well Log Analysis for Geologists Well Logging and Geology The Fundamentals of Well Log Interpretation Finding Oil and Gas from Well Logs Geologic Well Log Analysis Geological Well Logs Handbook of Well Log Analysis for Oil and Gas Formation Evaluation Theory, Measurement, and Interpretation of Well Logs Basic Well Log Analysis for Geologists Formation Evaluation with Pre-Digital Well Logs Basic Well Logging Fundamentals of Petrophysical Well-Log Interpretation Open-hole Log Analysis and Formation Evaluation The Log Analyst Handbook of well log analysis Well Logging for Earth Scientists George B. Asquith Oberto Serra Toby Darling M. H. Rider George B. Asquith Oberto Serra Malcolm Robert Jesse Wyllie L.M. Etnyre Sylvain Joseph Pirson S. Luthi Sylvian J. Pirson Zaki Bassiouni Richard M. Bateman E. W. Sengel George Asquith Richard M. Bateman Sylvain Joseph Pirson Darwin V. Ellis

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conceived and written by a geologist for geologists fundamentals of well log interpretation is a considerably revised and updated translation of the french edition part 1 dealt with the acquisition of logging data and when it appeared one reviewer wrote serra has written a major reference work which is unusually well

organized well illustrated and information rich if volume 2 is as thorough and exacting in detail as volume 1 it will do much toward furthering geologists knowledge of well logging aapg bulletin the fundamental objective of this second volume is to show that wireline log data constitute a remarkable source of geological information of the utmost importance for geologists but also for reservoir engineers geophysicists and petrophysicists too often by nature of their training geologists do not realize that wireline log data which are physical data hold in fact a tremendous variety of geological information covering practically all branches of geology they are reluctant to use these data because often they are not familiar with them and do not know how to interpret wireline logs other log users generally do not realize the importance of geological knowledge to better interpret logs this book aims to fill the gap by showing how wireline log data are dependent on geological parameters and how to extract the latter from the former methods of extracting the desired information from the wireline log data are explained and illustrated in summary the book explains how to make good geological studies from wireline logs it is an invaluable acquisition for geologists petrophysicists reservoir engineers and geophysicists who wish to make better use of wireline log data

this hand guide in the gulf drilling guides series offers practical techniques that are valuable to petrophysicists and engineers in their day to day jobs based on the author s many years of experience working in oil companies around the world this guide is a comprehensive collection of techniques and rules of thumb that work the primary functions of the drilling or petroleum engineer are to ensure that the right operational decisions are made during the course of drilling and testing a well from data gathering completion and testing and thereafter to provide the necessary parameters to enable an accurate static and dynamic model of the reservoir to be constructed this guide supplies these and many other answers to their everyday problems there are chapters on nmr logging core analysis sampling and interpretation of the data to give the engineer a full picture of the formation there is no other single guide like this covering all aspects of well logging and formation evaluation completely updated with the latest techniques and applications a valuable reference dedicated solely to well logging and formation evaluation comprehensive coverage of the latest technologies and practices including troubleshooting for stuck pipe operational decisions and logging contracts packed with money saving and time saving strategies for the engineer working in the field

this book is one in a series of three books by the authors on various aspects of well logging with the final book to be on reservoir evaluation the book departs from traditional log analysis books in that it has a very strong emphasis on geologic principles with an extensive review of the processes that influence hydrocarbon accumulations the chapters are written in a stand alone format this book is beautifully illustrated with colored plots charts and block diagrams on virtually every page

several excellent books on well log interpretation have already been published however i feel that these books do not place enough emphasis on the inherent uncertainties in tool responses or on the related and very practical problem of selecting suitable data points for statistical or quantitative calculations thus i have written this book not only to introduce the newcomer to this very complex art and science but also to provide him or her with the necessary tools to produce better interpretations the problems at the end of each chapter are essential to a more complete understanding of the subject matter and include many practical notes based on problems i have encountered in actual applications this book emphasizes that you develop your own concepts and understanding of the underlying principles rather than acquiring a compendium of knowledge based on certain rules of thumb if you are to successfully interpret welllogs you need to be able to apply your knowledge to new problems that may not follow the preconceived ideas and approaches you would follow if you approached well log analysis from a cookbook standpoint

logging has come a long way from the simple electrical devices of the early years today's tools are considerably more accurate and are used for an increasingly diverse number of tasks among these are tools that characterise geological properties of rocks in the borehole combined with new technology to drill deviated wells the geoscientist now has tools which allow him to characterise and develop reservoirs more accurately than ever this book written for researchers graduate students and practising geoscientists documents these techniques and illustrates their use in a number of typical case studies

an indispensable tool theory measurement and interpretation of well logs introduces the three primary phases of well logging technology to engineering and geosciences students this text offers an in depth study of the electric radioactive and acoustic properties of sedimentary rocks mathematical and empirical models relate a formation property of interest to the property measured with the logging tool openhole logging techniques are covered along

with concepts of traditional and modern tools additional resources you may want to consider this related spe training course well log interpretation essentials

formation evaluation with pre digital well logs covers the practical use of legacy materials for formation evaluation using wireline logging equipment from 1927 until the introduction of digital logging in the 1960s and 70s the book provides powerful interpretation techniques that can be applied today when an analyst is faced with a drawer full of old e logs it arms the engineer geologist and petrophysicist with the tools needed to profitably plan re completions or in fill drilling in old fields that may have been acquired for modern deeper and or horizontal drilling includes more than 150 figures log examples charts and graphs provides work exercises for the reader to practice log analysis and formation evaluation presents an important source for academia oil and gas professionals service company personnel and the banking and asset evaluation teams at consultancies involved in reserve and other property evaluation

petrophysical well logs are incremental depth records of rock mineral fluid and other properties of the subsurface well logs and the practice of well log interpretation by geologists and petroleum engineers represent a critical component of the exploration and assessment of potential hydrocarbon producing formations and reservoirs the fundamentals of petrophysical well log interpretation are presented in this monograph which is a compilation of slide oriented course notes and commentary created by the author over many semesters of undergraduate and graduate class room instruction and is designed as a self teaching guide with worksheets chapter 1 is an introduction to well log interpretation reviews discipline terminology the types and uses of various well logs and how the analyst might visually review logs in an effort to identify potentially productive zones of hydrocarbons chapter 2 introduces the reader the borehole environment and a view of the zones in a porous and permeable formation that has been invaded during drilling the algorithmic steps are presented for computation of formation temperature from data on the log header chapters 3 7 present to the user the general information and characteristics of the various well logs including what individual well logs are designed to measure and how tool measurements are converted to appropriate units needed for hydrocarbon production assessment each chapter presents well log analysis for two well known cretaceous formations glen rose and frontier chapter 8 reviews the critically important archie parameters that subsequently are used in chapter 9 to compute the water saturations of the glen rose and frontier formations using

the archie water saturation equation in prior worksheets the reader is guided to the determination that the frontier formation is a shaly sandstone and therefore the specific methods of shaly sandstone analysis are required chapter 10 is a review of additional techniques used to progressively refine interpretation of the two formations through well log analysis additional techniques demonstrated include guidance on the user answering the following questions 1 are the hydrocarbons calculated within chapter 9 moveable 2 are the two formations water wet or oil wet 3 what are the pore types within the glen rose 4 should the glen rose and frontier formations individually make water free completions similar to the other chapters the information acquired and computations by the user are oriented around worksheets so that final interpretations of each formation can be made chapter 11 introduces and extensively reviews techniques useful for the evaluation of hydrocarbon potential in unconventional shale reservoirs using the standard well log suite comprised of resistivity neutron porosity and bulk density logs the techniques will be presented along with four case studies of the gas bearing woodford shale and the three oil bearing shales permian leonard shale and two permian wolfcamp shales although the focus of the self guided components of the monograph are generally restricted to a few select formations the monograph includes considerable information and examples of the well logs host rock properties sandstones shales and reservoirs within other formations discussed include ordovician gunton devonian marcellus mississippian barnett chester mission canyon pennsylvanian canyon springer morrow and upper morrow permian bone springs glorieta and san andres triassic montney cretaceous lewis pictured cliffs and woodbine the slides and commentary in this monograph are expected to be useful to a broad range of petrophysical well log analysts as tools to practical application as well as ascending for the beginner the formidable learning curve of petrophysical well log interpretation

the first edition of this book demystified the process of well log analysis for students researchers and practitioners in the two decades since the industry has changed enormously technical staffs are smaller and hydrocarbons are harder to locate quantify and produce new drilling techniques have engendered new measurement devices incorporated into the drilling string corporate restructuring and the graying of the workforce have caused a scarcity in technical competence involved in the search and exploitation of petroleum the updated 2nd edition reviews logging measurement technology developed in the last twenty years and expands the petrophysical applications of the measurements

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